

Datasheet AE900XT



AE900XT Can operate at a higher speed while exhibiting reduced wear, also the "slip-stick" behavior is reduced. This can be achieved by using a solid lubricate.

Application

Bearings and moving parts where low friction and long wear life are important.

Material

POM with a solid lubricate.

Availability

	Value	Unit
Rod diameters	6-150	mm
Tube inside diameter	on request	
Tube outside diameter	on request	
Length standard	3000	mm
Sheet thickness	aug-50	mm
Sheet size	1000x2000	mm



AE900XT - Specifications

Physical properties

	Test standard	Value	Unit
Density		1,44	g/cm ³
Thermal conductivity		on request	
Specific heat capacity		on request	
Moisture absorption at 23°C, 50% RH	ISO 62	0,2	%
Water absorption at 23 °C	ISO 62	0,6	%
Flammability	UL 94	HB	[-]

Mechanical properties

	Test standard	Value	Unit
Tensile strength	ISO 527	63	MPa
Hardness	ISO 868	80	SHORE-D
Yield stress		on request	
Elongation at break	ISO 527	22	%
Modulus of elasticity in tension	ISO 527	2800	MPa
Bending modulus	Flexural test	2200	MPa
Flexural strength		on request	
Charpy impact strength +23°C		on request	
Charpy notched impact strength +23°C		on request	
Ball indentation hardness		on request	
Compressive modulus		on request	

Thermal properties

	Test standard	Value	Unit
Min. working temperature		-40	°C
Max. working temperature		100	°C
Intermittent working temperature		140	°C
Heat distortion temperature	Method A ISO 75	98	°C
Melting temperature	ISO 3146	165	°C
Thermal coefficient of linear expansion		on request	

Friction properties

	Test standard	Value	Unit
--	---------------	-------	------

Electrical properties

	Test standard	Value	Unit
Dielectric constant		on request	
Dielectric loss factor		on request	
Dielectric strength	IEC 243	33	KV/mm
Dielectric constant at 1MHZ	IEC 250	3,7	[-]

Electrical properties

Volume resistivity	IEC 93	10^{13}	$\Omega\cdot\text{cm}$
Surface resistivity	IEC 93	10^{13}	Ω
Resistance to tracking (CTI)		on request	